

Denis White ~ Curriculum Vitae

Geographer
US Environmental Protection Agency
Office of Research and Development
National Health and Environmental Effects Research Laboratory
Western Ecology Division
Watershed Ecology Branch
200 SW 35th Street
Corvallis, Oregon 97333 USA

voice: 541.754.4476
fax: 541.754.4799
email: white.denis@epa.gov
web: <http://www.epa.gov/wed/pages/staff/white/>

PUBLICATIONS:

EDUCATION:

1984. M.A., Department of Geography, Boston University.

1970 - 1971. Graduate study, Department of Geography, University of Oregon.

1969. B.A. (with distinction), major in Computer Science, University of Wisconsin.

PROFESSIONAL POSITIONS:

1998 - present. Geographer, US EPA, Corvallis, Oregon.
1998 - present. Faculty Research Assistant (courtesy appointment), Department of Geosciences, Oregon State University, Corvallis.
1993 - 1998. Faculty Research Assistant, Department of Geosciences, Oregon State University, Corvallis.
1988 - 1992. Research Scientist, ManTech Environmental Technology, Inc., c/o US EPA Environmental Research Laboratory, Corvallis, Oregon.
1988 - 1992. Faculty Research Assistant (courtesy appointment), Department of Geosciences, Oregon State University, Corvallis.
1985 - 1988. Associate Director,
1987 - 1988. Senior Research Associate,
1981 - 1987. Research Associate,
1980 - 1981. Lead Programmer,
1978 - 1980. Senior Programmer,
1975 - 1978. Applications Programmer, Laboratory for Computer Graphics and Spatial Analysis, Graduate School of Design, Harvard University, Cambridge, Massachusetts.

- 1982 - 1988. Lecturer, Department of Landscape Architecture, Graduate School of Design, Harvard University, Cambridge, Massachusetts.
- 1972 - 1975. Scientific Programmer, Department of Earth and Planetary Science, Massachusetts Institute of Technology, Cambridge.
- 1969 - 1970. Systems Programmer, Computer Center, University of Wisconsin, Madison.
- 1967 - 1969. Programmer, Department of Computer Science, University of Wisconsin, Madison.

AWARDS:

1993. Andrew McNally Award for best paper on cartography published in 1992 by the American Congress on Surveying and Mapping (shared with A J Kimerling and W S Overton).
1992. Performance Incentive Program award, ManTech Environmental Technology, Inc.
1991. Presidential Citation for Meritorious Service, American Society for Photogrammetry and Remote Sensing.
1991. Technical Achievement Award, US EPA Environmental Research Laboratory, Corvallis, Oregon, and ManTech Environmental Technology, Inc.

MAJOR FUNDED PROJECTS:

1998. Principal investigator, "Research on classification and regression trees," subcontract with University of Maine under NSF grant DMS-9711623, "Hierarchical modeling for integrated environmental assessments," to Raymond O'Connor.
1998. Principal investigator, "Prototype prioritization for biodiversity in Canada," Canadian Wildlife Service, Environment Canada contract with Oregon State University.
- 1997 - 1998. Principal investigator, "Research on ecological regionalization," US EPA cooperative agreement CR825752 with Oregon State University.
- 1997 - 1998. Principal researcher, "Modeling effects of alternative landscape design and management on water quality and biodiversity in Midwest agricultural watersheds," US EPA grant R825335 to Oregon State University.
- 1993 - 1997. Principal researcher, "Geographic analysis of habitat and species biological diversity," USDA Forest Service cooperative agreement PNW 92-0283 with Oregon State University and interagency agreement DW12935631 between USFS and US EPA.
- 1993 - 1996. Principal researcher, "Sampling Design and Statistics Research for EMAP: Development of Global Sampling Grid," US EPA cooperative agreement CR821672 with Oregon State University.
- 1988 - 1992. Research scientist in projects on the application of spatial analysis, cartographic design, and geographic regionalization to environmental science and management, US Environmental Protection Agency Environmental Research Laboratory, through contract with ManTech Environmental Technology, Inc.

- 1985 - 1988. Associate director of the Laboratory for Computer Graphics and Spatial Analysis, research direction, budgeting, and software distribution within the Laboratory and computer equipment support for the Graduate School of Design.
- 1987 - 1988. Principal investigator, "Development of a Geographic Information System for Analysis of the Farmland Resource Base of the United States," The American Farmland Trust.
- 1986 - 1988. Principal investigator, "Development of a Geographic Information System for Natural Resource Decision Making in Local Governments," The American Farmland Trust.
- 1986 - 1988. Principal investigator, "A Geographic Information System for Acadia National Park," US National Park Service Cooperative Agreement CA1600-4-0006, Amendments 10 and 11.
1985. Principal investigator, "Consultation on a Geographic Information System for Acadia National Park and Generation of Digital Terrain Data for a Park Fire Management Plan," US National Park Service Cooperative Agreement CA1600-4-0006, Amendment 6.
1985. Principal investigator, "Additions to the Minute Man National Historical Park Geographic Data Base and Conversion of the Data Base to National Park Service Format," US National Park Service Cooperative Agreement CA1600-4-0006, Amendment 5.
1985. Research associate, "A Pilot Study for Computer-Aided Simulations of Designs with Herbaceous Perennials," National Endowment for the Arts Grant 52-4231-0022.
- 1984 - 1985. Research and programming, "A Cartographic Modeling System for the IBM Personal Computer and Courseware in the Fields of Architecture, Landscape Architecture, and Design," International Business Machines Corporation.
- 1984 - 1985. Co-principal investigator, "Battle Road Corridor Design Alternatives: A Geographic Data Base for Minute Man National Historical Park," US National Park Service Cooperative Agreement CA1600-4-0006, Amendment 1.
- 1983 - 1984. Consultation and programming on a geographic data base for Yosemite National Park, US National Park Service.
- 1981 - 1982. Consultation and programming on geographic data bases for the Mount Monadnock Region, Department of Landscape Architecture, Graduate School of Design.
- 1980 - 1981. Principal investigator for a railroad mapping system, US Federal Railroad Administration and Union Pacific Railroad.
- 1975 - 1983. Co-design and programming of the Odyssey System for geographic data input, analysis, and display, Laboratory for Computer Graphics and Spatial Analysis.
- 1975 - 1977. Research and programming, "Topological Data Structures for Urban and Environmental Research," National Science Foundation Grant MCS 74-14437-A01.
1975. Design and programming on a study of the conversion of cartographic data bases, US Census Bureau.
- 1972 - 1975. Programming on the Planetary Ephemeris Program and related software for radio astronomy projects, Department of Earth and Planetary Science, MIT.

1969 - 1970. Systems modification and maintenance of a Burroughs B-5500 computer, Computer Center, University of Wisconsin, Madison.

1967 - 1969. Programming of a resolution-based theorem proving and logical programming system, Department of Computer Science, University of Wisconsin, Madison.

PROFESSIONAL SERVICE:

1975 - present. Reviews of manuscripts and proposals submitted to *Ecoscience*, *Landscape and Urban Planning*, *Journal of Geographical Systems*, *Fisheries*, *Landscape Ecology*, *Frontiers in Ecology and the Environment*, *Environmental Biology of Fishes*, *Canadian Journal of Fisheries and Aquatic Sciences*, *Journal of the American Water Resources Association*, *Ecological Applications*, *Conservation Biology*, *International Journal of Geographic Information Science*, *Cartography and Geographic Information Systems*, *Photogrammetric Engineering and Remote Sensing*, *Environmental Management*, *The Urban and Regional Information Systems Association Journal*, U S Department of Agriculture, National Endowment for the Humanities, Veterans Administration, U S Environmental Protection Agency, California Sea Grant Program, National Sciences and Engineering Research Council of Canada, Federal Emergency Management Agency.

1992 - 1993. Jury committee for awards by the Applied Geography Speciality Group, Association of American Geographers.

1991. Co-chair of program committee, Auto-Carto 10 Conference, sponsored by the American Congress on Surveying and Mapping (American Cartographic Association) and the American Society of Photogrammetry and Remote Sensing, Baltimore, MD.

1991. Steering committee, First International Conference/Workshop on Integrating Geographic Information Systems and Environmental Modeling, Boulder, CO.

TEACHING:

1986 - 1988. Harvard University Graduate School of Design 6400, "Geographic Information Systems, Geographic Data Bases and Computer-Assisted Cartography", lecture course.

1986 - 1987. Seminars for the Lincoln Institute of Land Policy on microcomputer applications for planners.

1986. Harvard University Graduate School of Design 1212, "Planning and Design of Landscapes", assistance in studio under Carl Steinitz.

1985. Harvard University Graduate School of Design Urban Design and Planning 117, "Survey of Geographic Information Systems", lecture course.

1985. Harvard University Graduate School of Design Landscape Architecture 315, "Land Development Process", assistance in studio under Charles Harris.

1984. Harvard University Graduate School of Design Landscape Architecture 312, "Major Landscape Change", assistance in studio under Carl Steinitz.

1983 - 1985. Harvard University Graduate School of Design Landscape Architecture 327, Architecture 13-3b, "Introductory Computer Graphics", lecture course.

1981 - 1982. Five week courses on computer graphics, Continuing Education, Graduate School of Design, Harvard University. One day seminars on computer graphics, Center for Lifelong Learning, Harvard University.

1970 - 1971. Teaching Assistant, Department of Geography, University of Oregon.

GRADUATE STUDENT COMMITTEES (Oregon State University):

Doctor of Philosophy

2002. Patricia Berger, Department of Bioresource Engineering.

1997. Patrick Kennelly, Department of Geosciences.

Master of Science, Department of Geosciences

2004. Chris Zanger

2003. Kenneth Crouse

2002. Becci Dale, David Thierl

2001. Karen Siegel

1999. Isaac Brewer, Matthew Gregory

1998. Charles Barrett

1997. Lian Song, Cheryl Hummon

1996. Mary Barczak, Daniel Rathert

1995. Priscilla Minotti, Jane Ely

1993. Robert Harmon

1991. Sandra Thiele (Bryce), Derek Pross, Jacqueline Sneed

1990. Jayne Dolph, Jaimie Bradbury, Anthony Selle, Scott Splean

Master of Science, Department of Forest Resources

2000. David Graetz

1999. Neal Shunk

ACADEMIC COMMITTEES AND COUNCILS:

1993 - 1997. Computer Committee, Department of Geosciences, Oregon State University.

1984 - 1987. Special Programs Council, Harvard Graduate School of Design.

1982 - 1984. Educational Resources Committee, Harvard Graduate School of Design.

PROFESSIONAL ASSOCIATIONS:

Association of American Geographers

CONSULTING:

1986 - 1987. Lincoln Institute of Land Policy, Cambridge, Massachusetts.

1986. Foundation Land Company, Palm Beach Gardens, Florida.

1986. Dames and Moore, Inc., Phoenix, Arizona.

1985. National Park Service, North Atlantic Region, Boston, Massachusetts.

1985. Synercom Technology, Inc., Sugar Land, Texas.

1980. Federal Insurance Agency, Washington, D.C.

1980. Gulf Oil Company, Houston, Texas.

1977. Board of Education, Stamford, Connecticut.

- 1977. Teheran Development Council Secretariat, Teheran, Iran.
- 1976. Development Academy of the Philippines, Manila.
- 1975. US Geological Survey, Reston, Virginia.

MILITARY SERVICE:

- 1963 - 1966. US Army, Corps of Engineers, Fort Leonard Wood, Missouri, and Hanau, West Germany.

September 2006